

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ASMEX.271VPC	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/US 01/ 11223	International filing date (day/month/year) 06/04/2001	(Earliest) Priority Date (day/month/year) 06/04/2000
Applicant ASM AMERICA, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☒ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

INTERNATIONAL SEARCH REPORT

National Application No
PCT/US 01/11223

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C23C16/44 C23C16/458 G01K1/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C23C G01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DD 154 695 A (EHRHARDT WILFRIED; FLEISCHHACK MANFRED; HERKLOTZ HANS; RICHTER EDGAR; B) 14 April 1982 (1982-04-14) page 1, paragraph 1; claims; example 1 ---	1, 2, 10, 14, 25
X	EP 0 229 488 A (ANICON INC) 22 July 1987 (1987-07-22) column 6, line 5 - line 17; claims; example 1 ---	1-5, 9, 10, 14, 25-29, 31
X	US 5 562 774 A (BREIDENBACH ET AL.) 8 October 1996 (1996-10-08) column 4, line 7 - line 18; claims --- -/--	1-3, 10, 14, 25, 26

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

15 November 2002

Date of mailing of the international search report

28/11/2002

Name and mailing address of the ISA

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Patterson, A

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 01/11223

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 99 23276 A (ASM INC) 14 May 1999 (1999-05-14)	1,2,12, 15,16, 22,23, 25,32, 33,36
A	page 6, line 19 -page 7, line 15; claims ---	39-45
Y	US 4 692 556 A (BOLLEN THEO P C ET AL) 8 September 1987 (1987-09-08) abstract; claim 1 -----	1,2,12, 15,16, 22,23, 25,32, 33,36

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-12 14-38

Vitreous components in general provided with a barrier coating which prevents devitrification (not novel), in particular a coated thermocouple sheath.

2. Claims: 13 39-45

Portion of a vitreous substrate support member provided with a coating which prevents devitrification.

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International application No.
PCT/US 01/11223

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 01/11223

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
DD 154695	A	14-04-1982	DD	154695	A1		14-04-1982
EP 0229488	A	22-07-1987	AU	6610286	A		11-06-1987
			EP	0229488	A1		22-07-1987
			JP	62134936	A		18-06-1987
US 5562774	A	08-10-1996	DE	4429825	C1		09-11-1995
			EP	0698584	A2		28-02-1996
			JP	2883028	B2		19-04-1999
			JP	8083835	A		26-03-1996
			KR	162545	B1		16-11-1998
WO 9923276	A	14-05-1999	EP	1029109	A1		23-08-2000
			JP	2001522138	T		13-11-2001
			WO	9923276	A1		14-05-1999
			US	6325858	B1		04-12-2001
US 4692556	A	08-09-1987	DE	3541326	A1		27-05-1987
			US	4645865	A		24-02-1987
			CA	1286124	A1		16-07-1991
			BE	902769	A2		30-12-1985
			DE	3522433	A1		02-01-1986
			FR	2566904	A1		03-01-1986